

10/540389  
Rec'd PCT/PTO 20 JUL 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**GENERAL POWER OF ATTORNEY**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Owner Name: NISSAN CHEMICAL INDUSTRIES, LTD.

hereby appoints the patent practitioners associated with Oliff & Berridge, PLC Customer No. 25944 as attorneys of record to prosecute any and all patents and patent applications in which this General Power of Attorney is filed, and all continuations and divisions thereof, owned in whole or in part by the above-named owner, and to transact all business in the Patent and Trademark Office.

The undersigned is authorized to execute this document as or on behalf of the owner.

**ALL CORRESPONDENCE SHOULD BE SENT TO OLIFF & BERRIDGE, PLC,  
CUSTOMER NO. 25944, TELEPHONE (703) 836-6400.**

August 11, 2004

Date

Misao Miyamoto  
Signature

Typed Name: Misao MIYAMOTO

Title: General Manager of Patent &  
Information Department  
(if acting on behalf of an Owner)

10/540389  
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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Satoshi TAKEI et al.

Application No.: 10/540,389

Filed: July 20, 2005

Docket No.: 124418

For: ALKALI-SOLUBLE GAP FILLING MATERIAL FORMING COMPOSITION FOR LITHOGRAPHY

**TRANSMITTAL OF POWER OF ATTORNEY AND STATEMENT UNDER 37 CFR § 3.73(b)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith is a Power of Attorney from the Assignee.

In compliance with 37 CFR §3.73(b), the undersigned hereby states that NISSAN CHEMICAL INDUSTRIES, LTD. is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventors of the patent application identified above. A copy of the assignment is attached hereto.

The undersigned is authorized to act on behalf of the assignee.

In accordance with 37 CFR §1.36(a), submission of this Power of Attorney revokes any powers of attorney previously given.

**ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. 25944, TELEPHONE (703) 836-6400.**

Respectfully submitted,

  
Eric D. Morehouse  
Registration No. 38,565

EDM/emt

Date: July 20, 2005

## ASSIGNMENT

10/540389

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(1-8) Insert Name(s)  
of Inventor(s)

(1) Satoshi TAKEI \_\_\_\_\_  
 (2) Kazuhisa ISHII \_\_\_\_\_  
 (3) Shinya ARASE \_\_\_\_\_  
 (4) \_\_\_\_\_  
 (5) \_\_\_\_\_  
 (6) \_\_\_\_\_  
 (7) \_\_\_\_\_  
 (8) \_\_\_\_\_

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9) NISSAN CHEMICAL INDUSTRIES, LTD.  
 (10) 7-1, Kandanishiki-cho 3-chome, Chiyoda-ku, Tokyo 101-0054, Japan

(9) Insert Name of Assignee  
(10) Insert Address of  
Assignee(11) Insert Identification,  
such as Title, Case Number  
or Foreign Application  
Number(12) Insert Date of Signing of  
Application(13) Alternative Identification  
for filed applications

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. § 100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11) ALKALI-SOLUBLE GAP FILL MATERIAL FORMING  
COMPOSITION FOR LITHOGRAPHY

(Attorney Docket No. 124418)

for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or

(12) on July 8, 2005

(13) U.S. application Serial Number 10/540,389  
 filed July 19, 2005

1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.

2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.

5) Each undersigned authorizes and requests the Director of Patents to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, and assigns and legal representatives.

6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, PLC the power of insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date July 8, 2005 Inventor Signature Satoshi Takei (SEAL)

Date July 8, 2005 Inventor Signature Kazuhisa Ishii (SEAL)

Date July 8, 2005 Inventor Signature Shinya Arase (SEAL)

Date \_\_\_\_\_ Inventor Signature \_\_\_\_\_ (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date \_\_\_\_\_ Witness \_\_\_\_\_

Date \_\_\_\_\_ Witness \_\_\_\_\_

10/540389

Docket No. 134418  
Rec'd PCT/PTO 20 JUL 2005

**DECLARATION UNDER 35 USC §371(c)(4) FOR  
PCT APPLICATION FOR UNITED STATES PATENT**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below under my name;

I verily believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought, namely the invention entitled:

**ALKALI-SOLUBLE GAP FILL MATERIAL FORMING COMPOSITION**  
**FOR LITHOGRAPHY**

described and claimed in international application number **PCT/JP2003/016735 filed December 25, 2003**.

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations §1.56.

Under Title 35, U.S. Code §119, the priority benefits of the following foreign application(s) filed by me or my legal representatives or assigns within one year prior to my international application are hereby claimed:

**Japanese Patent Application No. 2002-376781 filed December 26, 2002**

The following application(s) for patent or inventor's certificate on this invention were filed in countries foreign to the United States of America either (a) more than one year prior to my international application, or (b) before the filing date of the above-named foreign priority application(s):

**ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NUMBER 25944, TELEPHONE (703) 836-6400.**

I hereby declare that I have reviewed and understand the contents of this Declaration, and that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

1	<b>Typewritten Full Name of Sole or First Inventor:</b>	<i>Satoshi Takei</i>		<b>TAKEI</b>
		<b>Given Name</b>	<b>Middle Initial</b>	<b>Family Name</b>
2	<b>Inventor's Signature:</b>	<i>Satoshi Takei</i>		
3	<b>Date of Signature:</b>	<b>July</b>	<b>8</b>	<b>2005</b>
		<b>Month</b>	<b>Day</b>	<b>Year</b>
	<b>Residence:</b>	<b>Toyama-shi</b>	<b>Toyama</b>	<b>Japan</b>
		<b>City</b>	<b>State or Province</b>	<b>Country</b>
	<b>Citizenship:</b>	<b>Japanese</b>		
	<b>Post Office Address:</b>	c/o Nissan Chemical Industries, Ltd., Toyama Research and		
	(Insert complete mailing address, including country)	Development Center, 635, Sasakura, Fuchu-machi, Toyama-shi, Toyama 939-2753, Japan		

**Note to Inventor: Please sign name on line 2 exactly as it appears in line 1 and insert the actual date of signing on line 3.**

**IF THERE IS MORE THAN ONE INVENTOR USE PAGE 2 AND PLACE AN "X" HERE ☒**  
**(Discard this page in a sole inventor application)**

1 **Typewritten Full Name  
of Joint Inventor:**

<u>Kazuhisa</u>	Middle Initial	ISHII
Given Name		Family Name

2 **Inventor's Signature:**

3 **Date of Signature:**

July

8

2005

Residence:

Chiyoda-ku

Tokyo

Japan

Citizenship:

Japanese

State or Province

Country

Post Office Address: c/o Nissan Chemical Industries, Ltd., 7-1, Kandanishiki-cho 3-chome,  
Chiyoda-ku, Tokyo 101-0054, Japan

1 **Typewritten Full Name  
of Joint Inventor:**

<u>Shinya</u>	Middle Initial	ARASE
Given Name		Family Name

2 **Inventor's Signature:**

3 **Date of Signature:**

July

8

2005

Residence:

Funabashi-shi

Chiba

Japan

Citizenship:

Japanese

State or Province

Country

Post Office Address: c/o Nissan Chemical Industries, Ltd., Electronic Materials Research  
Laboratories, 722-1, Tsuboi-cho, Funabashi-shi, Chiba 274-8507, Japan

1 **Typewritten Full Name  
of Joint Inventor:**

Given Name	Middle Initial	Family Name
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2 **Inventor's Signature:**

Given Name	Middle Initial	Family Name
------------	----------------	-------------

3 **Date of Signature:**

Month

Day

Year

Residence:

City

State or Province

Country

Citizenship:

Post Office Address:

(Insert complete mailing  
Address, including country)

1 **Typewritten Full Name  
of Joint Inventor:**

Given Name	Middle Initial	Family Name
------------	----------------	-------------

2 **Inventor's Signature:**

Given Name	Middle Initial	Family Name
------------	----------------	-------------

3 **Date of Signature:**

Month

Day

Year

Residence:

City

State or Province

Country

Citizenship:

Post Office Address:

(Insert complete mailing  
Address, including country)

**Note to Inventor:** Please sign name on line 2 exactly as it appears in line 1 and insert the actual date of signing on line 3.

This form may be executed only when attached to the first page of the Declaration and Power of Attorney of the application to which it pertains.